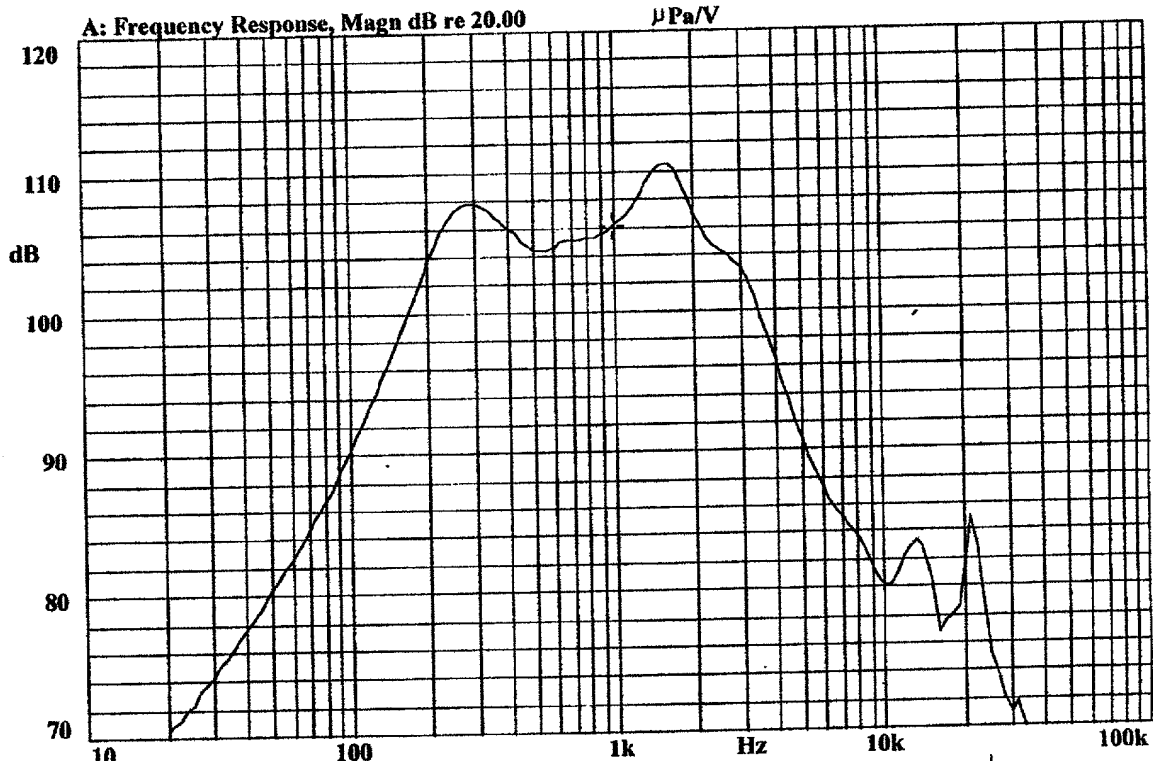


## 5-4 Test Of Output Sound Pressure Frequency Characteristics.

Changing the frequency after added 1000Hz 1mW(0.179V) at the input tip of Earphone with constant voltage of sine wave input power at the standard status, There shall not be great difference with below output sound pressure frequency Characteristics.

→ Using B & K 4153 COUPLER

X:1.0000kHz \*Y:106.03dB ZA:Live Curve SSR Fund.



04-JUN-1999 16:41:59

Mode: SSR



## 5-5 Test Of Sensitivity

The sound pressure shall be within  $105 \pm 3\text{dB}$  after added 1000Hz, 1mW(0.179V) of sine wave input power.

## 5-6 Test Of Continuation Activation

It should be satisfied with article 5-1 after added 10 (0.556V) of white noise

For 48 hours on input terminal under the status of leaving earphone free space.

□ Normal temperature :  $5 \square 35 \square$ , Normal humidity : relative humidity 45%  $\square$  85%,  
Normal atmosphere : 860mbar  $\square$  1060mbar.

**CONFIDENTIAL**

**NOTICE - PRODUCT PATENT PENDING**

T04750"4TFE.660

## 6. PERFORMANCE(MIC PART)

### 6-1 Working Component

Omnidirectional electron condenser microphone.

### 6-2 Working Test

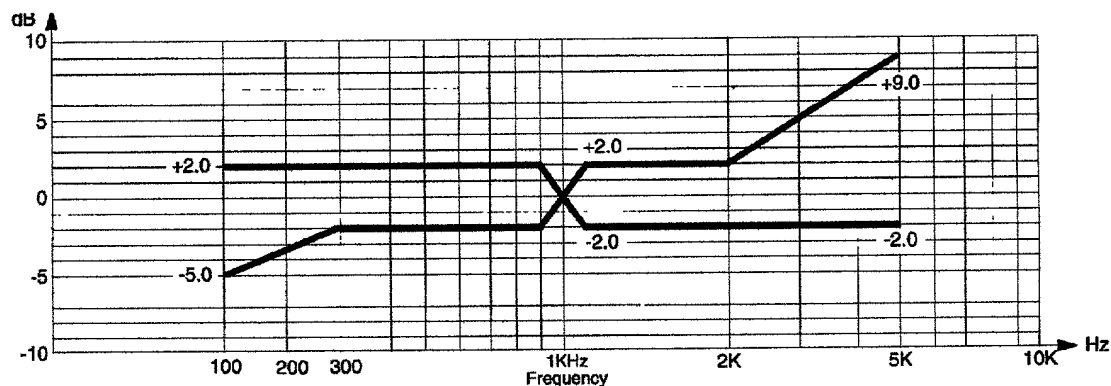
It should be normal at tone quality volume, noise when activated microphone

Using amplifier which has lower distortion.

### 6-3 Frequency Characteristics Test

The frequency characteristics should be within below figure of variation with 2V of allowed voltage.

STANDARD FREQUENCY CHARACTERISTICS VARIATION



### 6-4 Sensitivity

Make microphone's sensitivity within  $-40\text{dB} \pm 4\text{dB}$ ,

$0\text{dB} = 1\text{V}/1\text{Pa}$  at  $1\text{Pa}$ , allowed voltage 2V.

### 6-5 Range Of Using Voltage $1\text{V} \sim 10\text{V}$

### 6-6 Consumption Current $130 \sim 500 \mu\text{A}$

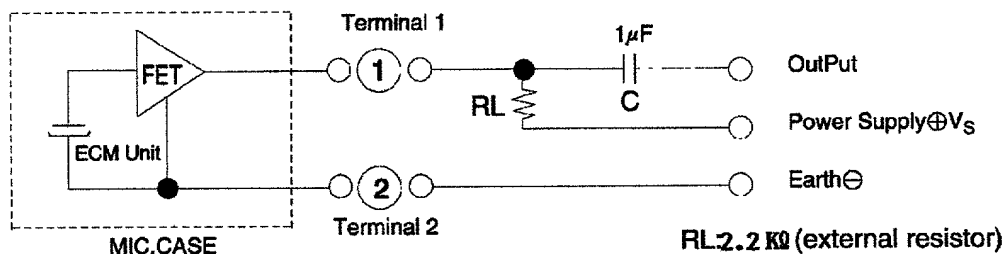
### 6-7 Impedance $2.2 \text{K}\Omega$

### 6-8 Signal to Noise Ratio $58\text{dB}$ $f=1\text{KHz}$ , S.P.L=1Pa A curve

### 6-9 Connect zenner diode and condenser between microphone's terminals.

Zenner Diode (Chip type) ; 12V (GENERAL SEMICONDUCTOR)

### 6-10 Circuit Diagram



**CONFIDENTIAL**

**NOTICE - PRODUCT PATENT PENDING**

## 7. MECHANICAL CHARACTERISTICS

### 7-1 Bending Intensity

It shall be normal when bended left and right, 20times for a minute with below each load, respectively.

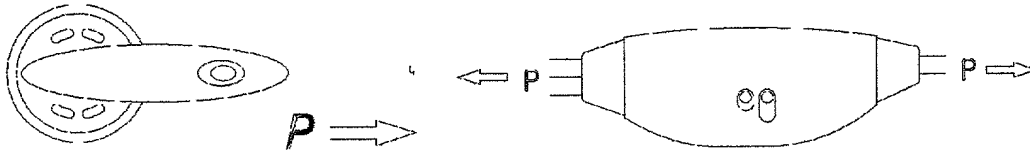
- |                                      |                                     |
|--------------------------------------|-------------------------------------|
| a) connector part : 5000times / 300g | b) earphone part : 3000times / 100g |
| c) mic part                          |                                     |
| □ 1string part : 3000times / 100g    | □ 2string part : 3000times / 100g   |

### 7-2 Pulling Intensity

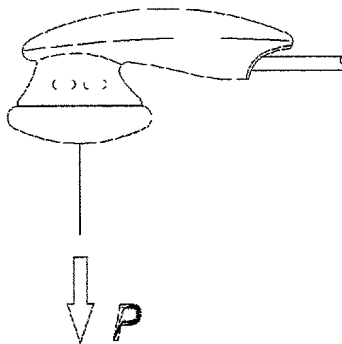
- a) There shall not be abnormality about direction, short and covered wire after pulled 5kg of load which is not moving toward cord direction for a minute holding part.
- b) There shall not be abnormality about disconnection, short and covered wire after pulled 3kg of load which is not moving toward normal direction for a minute holding earphone case and mic side.

EARPHONE SIDE

MIC SIDE



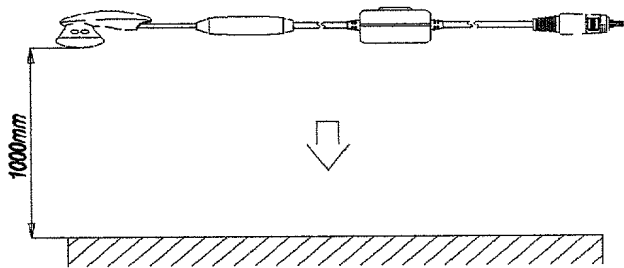
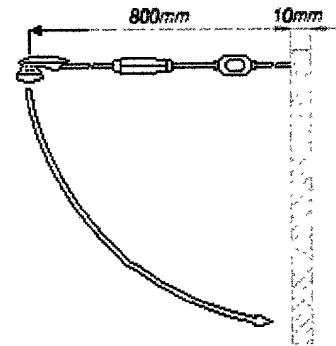
### 7-3 Connection Intensity Of HOUSING + RUBBER RING



Housing and Rubber Ring shall not be separated with each other after P=250g power is added.

## 7-4 Impact Test

- ☐ There shall not be mal-function after naturally fall to like figure as shown 10mm thickness of wooden plate 5 times.
- ☐ There shall not be mal-function after naturally fall to P-tile 6times like figure as shown.



## 8. VEERING TEST

The cord shall not veer to PS. ABS. AS. and POLYCARVONATE with 60°, 72 hours. (Weight 500g)

## 9. ENVIRONMENTAL TEST

It should satisfy with article 4-1,5-1,5-4 and 5-5 after each below Test is executed.

ITEM	CONDITIONS	TESTING TIME	LEAVING TIME
TEMPERATURE - PROOF	TEMPERATURE $45 \pm 2^\circ$ HUMIDITY $90\% \sim 95\%$	48 (H)	2 (H)
HIGH HEAT (A)	TEMPERATURE $80 \pm 2^\circ$ RELATIVE HUMIDITY 95%	48 (H)	2 (H)
COLD-PROOF	TEMPERATURE $-40 \pm 2^\circ$	6 (H)	2 (H)
CYCLE TEST	0.5(H) TEMPERATURE $80^\circ(0.5H) - 40^\circ(1H)$ 0.5(H)	3 CYCLE	2 (H)



#### 10. CONTINUATION LOAD TEST

It should be satisfied with article 5-1 after 20mW(0.8V) of white noise signal is added for 500 hours to input power terminal under the status of the feeder regulated by EIAJ RC-7502 is in the free space.

#### 11. VIBRATION-PROOF TEST

It should satisfy with article 4-1, 5-1, 5-4 and 5-5 after each below Test is executed.

\* The test be executed with minimum packing status.

R.P.M	500 □ 1500 R.P.M
WIDTH OF VIBRATION	2mm
DIRECTION	3 directional of upper-down, left and right, and toward and backward
TIMES	20min per each direction
STATUS	sine wave

#### 12. INSULATION RESISTANCE

It should be above 5□ after DC 250V added to exposure surface of earphone for a minute.

#### 13. VOLTAGE-PROOF

There should not be insulation demolition after DC 250V frequency added To exposure surface of earphone for a minute.

#### 14. PACKAGE

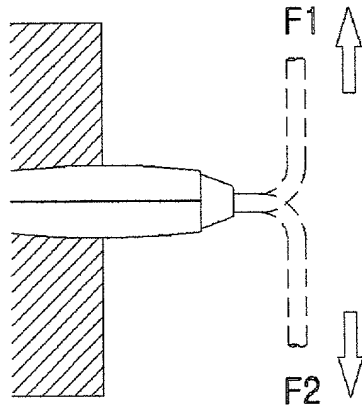
It depend on special indication attached.

#### 15. THE OTHERS

For the items not stated in this specification or need to be modified, decide by discussion each other.

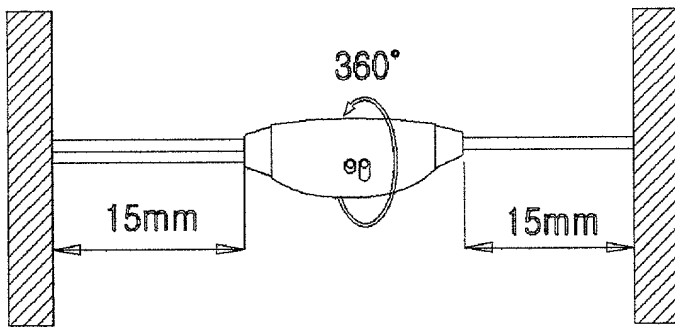
#### 16. SPEC. FOR REMOTE CONTROLLER'S PARTS

16-1. Intensity Of Case



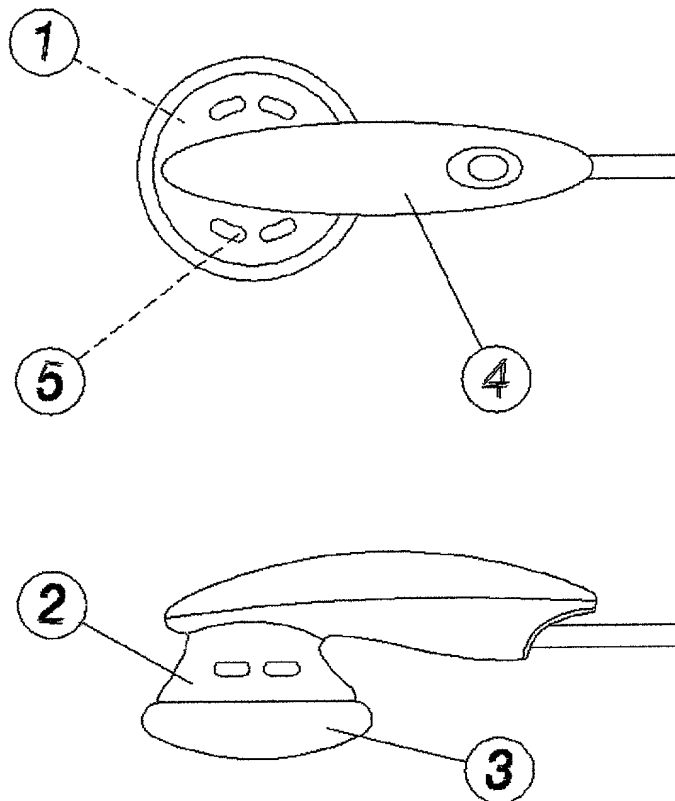
It should be normal with  $F_1, F_2 = 2\text{kg}$ , for a minute holding the half of the case.

## 16-2. Rotating intensity of case



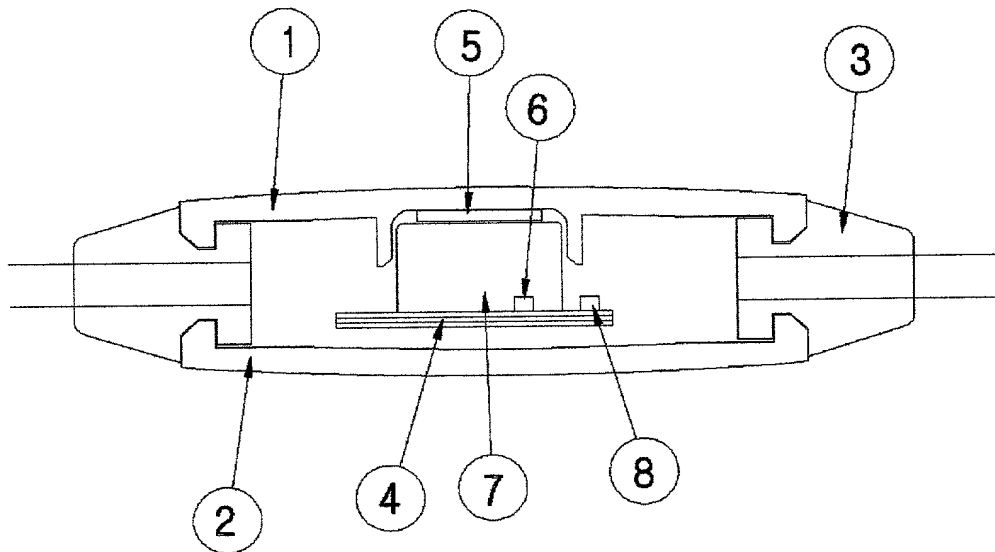
It should be normal with 1000 times of revolution.

## 17. ASSEMBLY DRAWING OF HOUSING PART



5	H/DAMPER	COMPRESSED URETHANE	BLACK	
4	HOUSING COVER	ABS	SILVER (SPRAY)	
3	RUBBER RING	NV70	BLACK	
2	HOUSING	ABS	SILVER (SPRAY)	
1	UNIT ASSY	9 $\mu$ , 32 $\Omega$	NATURAL	
NO	PART NAME	DESCRIPTION	C O L O R	

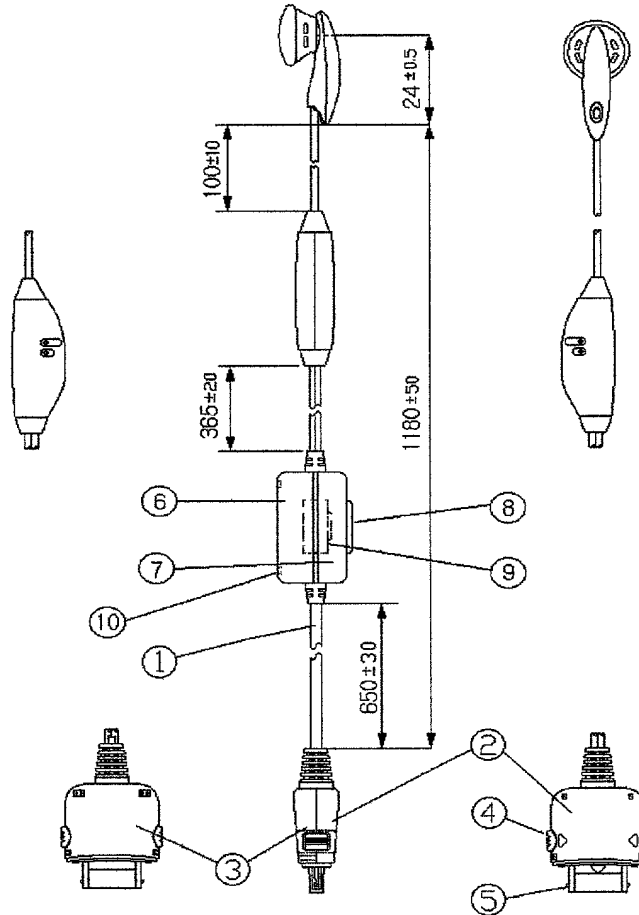
## 18. ASSEMBLY DRAWING OF REMOTE CONTROLLER PART ( P T T )



8	NOT	NOT	NOT	
7	CONDENSER MIC	OB-27P40	NATURAL	
6	ZENNER DIODE	12V	NATURAL	
5	DAMPER	COMPRESSED URETHANE	BLACK	
4	PCB SET	FR-4 t=0.6	NATURAL	
3	BUSHING	P.V.C70%	BLACK	
2	BOTTOM CASE	ABS#380	BLACK	
1	UPPER CASE	ABS#380	BLACK	
No	PART NAME	DESCRIPTION	C O L O R	



## 19. ASSEMBLY DRAWING OF PRODUCT



10	SCREW	2 / 2X8	BLACK	
9	TACT S/W	DT-1105		
8	PTT. S/W KONB	ABS	BLACK	
7	PTT. UPPER CASE	ABS	BLACK	
6	PTT. BOTTOM CASE	ABS	BLACK	
5	CONNECTOR		BLACK	
4	BUTTEN	ABS	BLACK	
3	CON. BOTTOMCASE	ABS	BLACK	
2	CON. UPPER CASE	ABS	BLACK	
1	WIRE	PUR50%,Ø1.6X2	NON-VEERING(BLACK)	
NO.	PART NAME	DESCRIPTION	COLOR	